

5 WHAT IS CLAIMED:

1. A replendam, comprising:

a first reticulated wall having a perimeter;

10 a second reticulated wall disposed about at least a portion of the perimeter of the first reticulated wall, the second reticulated wall having a plurality of vanes supported thereon, the second reticulated wall extending to an outer frame; and,

15 an air dam disposed in spaced apart relation to the first reticulated wall.

2. The replendam of Claim 1, wherein the air dam is attached to the first reticulated wall and to the second reticulated wall.

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3. The replendam of Claim 2, wherein the air dam is attached to the first and second reticulated walls by a spring having a first leg attached to the first reticulated wall and having a second leg attached to the  
25 second reticulated wall.

4. The replendam of Claim 1, wherein the first reticulated wall is round.

30 5. The replendam of Claim 4, wherein the plurality of vanes extend from the perimeter of the first reticulated wall.

6. The replendam of Claim 1, wherein the outer frame  
35 has a groove disposed on a first side.

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7. The replendam of Claim 6, wherein the groove is V-shaped.

8. The replendam of Claim 1, wherein the outer frame  
10 has a sealing edge disposed on the side opposite from the air dam.

9. A replendam, comprising:

a first reticulated wall having a perimeter;

15 a second reticulated wall disposed about at least a portion of the perimeter of the first reticulated wall, the second reticulated wall having a plurality of vanes supported thereon, the plurality of vanes extending from the perimeter of the first reticulated wall, the second  
20 reticulated wall extending to an outer frame, the outer frame having a sealing edge disposed thereon; and,

an air dam disposed in spaced apart relation to the first reticulated wall and connected to the first and second reticulated walls.

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10. The replendam of Claim 9, wherein the first reticulated wall is round.

11. The replendam of Claim 9, wherein the air dam is  
30 connected to the first and second reticulated walls by a spring having a first leg attached to the first reticulated wall and having a second leg attached to the second reticulated wall.

35 12. The replendam of Claim 9, wherein the outer frame

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5 has a groove disposed on a first side.

13. A filter cartridge assembly, comprising:

10 a cover having a recessed portion with an opening at a first end covered by a reticulated wall, the recessed portion capable of receiving filter media, the cover having a planar wall disposed adjacent to the recessed portion and a rim;

filter media disposed inside the recessed portion of the cover;

15 a cartridge body having side walls and a bottom wall with an opening defined therein;

a sorbent media bed disposed inside the cartridge body; and,

20 a replendam having a first reticulated wall having a perimeter, a second reticulated wall disposed about at least a portion of the perimeter of the first reticulated wall, the second reticulated wall having a plurality of vanes supported thereon, the second reticulated wall extending to an outer frame, and, an  
25 air dam disposed in spaced apart relation to the first reticulated wall, the replendam disposed between the cover and the cartridge body such that the air dam engages with the filter media, the bottom of the replendam engages with the sorbent media bed, and the  
30 replendam defines a plenum chamber between the filter media and the sorbent media bed.

14. The filter cartridge assembly of Claim 13, wherein the air dam is connected to the first reticulated wall  
35 and to the second reticulated wall.

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15. The filter cartridge assembly of Claim 14, wherein the air dam is connected by a spring having a first leg attached to the first reticulated wall and having a second leg attached to the second reticulated wall.

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16. The filter cartridge assembly of Claim 13, wherein the first reticulated wall is round.

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17. The filter cartridge assembly of Claim 16, wherein the plurality of vanes extend radially from the perimeter of the first reticulated wall.

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18. The filter cartridge assembly of Claim 13, wherein the outer frame has a groove disposed on a first side.

19. The filter cartridge assembly of Claim 18, wherein the groove is V-shaped.

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20. The filter cartridge assembly of Claim 19, wherein the cover has a rib that engages with the groove on the outer frame of the replendam.

21. The filter cartridge assembly of Claim 1, wherein the outer frame has a sealing edge.

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22. A single stage filter assembly, comprising:

a cover having a planar wall disposed adjacent to an outer rim;

a retaining member including a reticulated wall

35 bordered by an outer frame, the retaining member having

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- 5 a plurality of springs disposed thereon;  
a cartridge body having side walls and a bottom  
wall with an opening defined therein; and,  
a sorbent media bed disposed inside the cartridge  
body.
- 10 23. The filter assembly of Claim 22, wherein the  
springs are integrally formed in the retaining member.
24. The filter assembly of Claim 22, wherein the cover  
15 has an opening sized such that it can be covered by a  
hand of a user.
25. The filter assembly of Claim 22, wherein the  
retaining member further comprises a plurality of vane-  
20 like members for directing the air flow.

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